



U.S. Department of Energy
Hanford Site

0059430

MAY 14 2003

03-ED-066

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

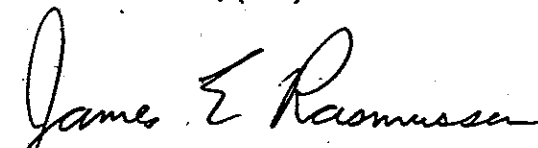
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Dear Mr. Wilson:

PERMITTING DOCUMENTATION ASSOCIATED WITH THE TRANSFER OF THE 242-A
EVAPORATOR

Attached is the "Hanford Facility Dangerous Waste Permit Application, Part A, Form 3, Revision 8 for the 242-A Evaporator," and related Hanford Facility Resource Conservation and Recovery Act Permit modification notification forms. The 242-A Evaporator Part A, Form 3, Revision 8 has been revised to reflect the change in co-operator from Fluor Hanford, Inc., (FHI) to CH2M HILL Hanford Group, Inc. (CHG). This document is being transmitted to the State of Washington Department of Ecology (Ecology) in advance of the operational turnover date (May 26, 2003) from FHI to CHG. As discussed with Ecology staff, no other changes have been made to the attached Part A, Form 3, Revision 8.

If you have any questions, please contact Rick R. McNulty, Environmental Division, Office of River Protection, (509) 376-9304.


James E. Rasmussen, Director
Environmental Division


Joel Hebdon, Director
Regulatory Compliance and Analysis Division

ED:LAH

Attachment

cc: See page 2

Attachment
03-ED-066

Hanford Facility Dangerous Waste Permit Application, Part A,
Form 3, Revision 8 for the 242-A Evaporator

Hanford Facility RCRA Permit Modification Notification Forms
Part III, Chapter 5 and Attachment 35
242-A Evaporator

Quarter Ending June 30, 2003

Page 1 of 3

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Page 2 of 3: Hanford Facility RCRA Permit, III.5
Page 3 of 3: Chapter 1.0, Part A Form 3

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit: 242-A Evaporator	Permit Part & Chapter: Part III, Chapter 5 and Attachment 35
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Description of Modification:

Hanford Facility RCRA Permit, Condition III.5.A:

CHAPTER 5**242-A Evaporator**

The 242-A Evaporator is a mixed waste treatment and storage unit consisting of a conventional forced-circulation, vacuum evaporation system to concentrate mixed-waste solutions. This Chapter sets forth the operating Conditions for this TSD unit.

III.5.A. COMPLIANCE WITH APPROVED PERMIT APPLICATION

The Permittees shall comply with all requirements set forth in Attachment 35, including all Class 1 Modification, and the Amendments specified in Condition III.5.B, if any exist. All subsections, figures, and tables included in these portions are enforceable):

ATTACHMENT 35:

- | | |
|--------------|--|
| Chapter 1.0 | Part A, Form 3, Dangerous Waste Permit, Revision-7A 8, from Class 1 Modification for quarter ending December 31st 2002 <u>June 30, 2003</u> |
| Chapter 2.0 | Unit Description, from Class 1 modification for quarter ending December 31, 2002 |
| Chapter 3.0 | Waste Analysis Plan, from Class 1 Modification for quarter ending December 31, 2002 |
| Chapter 4.0 | Process Information, from Class 1 Modifications for quarter ending March 31, 2003 |
| Chapter 6.0 | Procedures to Prevent Hazards, from Class 1 Modification for quarter ending March 31, 2003 |
| Chapter 7.0 | Contingency Plan, from Class 1 Modification from quarter ending March 31, 2003 |
| Chapter 8.0 | Personnel Training, from Class 1 Modification from quarter ending December 31, 2002 |
| Chapter 11.0 | Closure and Financial Assurance, from Class 1 Modification for quarter ending December 31, 2002 |
| Chapter 12.0 | Reporting and Recordkeeping, from Class 1 Modification from quarter ending December 31, 2002 |
| Chapter 13.0 | Other Federal and State Laws, from Class 1 Modification from quarter ending December 31, 2002 |
| Appendix 4B | The 242-A Evaporator/Crystallizer Tank System Integrity Assessment Report, from Class 1 Modification for quarter ending December 31, 2002 |

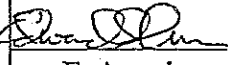
III.5.B. AMENDMENTS TO THE APPROVED PERMIT APPLICATION

III.5.B.1 Portions of DOE/RL-94-02 that are not made enforceable by inclusion in the applicability matrix for that document, are not made enforceable by reference in this document.

Modification Class: ¹²³	Class 1	Class ¹ 1	Class 2	Class 3
Please check one of the Classes:		X		

Relevant WAC 173-303-830, Appendix I Modification: A.7

Enter wording of the modification from WAC 173-303-830, Appendix I citation**A. General Permit Provisions****7. Changes in ownership or operational control of a facility**

Submitted by Co-Operator:	Reviewed by DOE Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 5/8/03			
E. Aromi Date	J. Swailes Date	F. Jamison Date	L. E. Ruud Date

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:
242-A Evaporator

Permit Part & Chapter:
Part III, Chapter 5 and Attachment 35

Description of Modification:

Chapter 1.0, Part A, Form 3: The Part A, Form 3 is being revised and recertified to reflect a change in operational control of the 242-A Evaporator from Fluor Daniel Hanford Inc. to CH2M Hill Hanford Group, Inc. This change is scheduled to be effective May 26, 2003.

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner/Operator

~~Keith A. Klein, Manager~~ John D. Wagoner, Manager
U.S. Department of Energy,
Richland Operations Office

Date

Owner/Operator

Roy J. Schepens, Manager
U.S. Department of Energy,
Office of River Protection

Date

Co-operator

~~Edward S. Aromi Jr.~~ H. J. Hatch,
President and General Manager Chief Executive Officer
CH2M Hill Hanford Group, Inc. Fluor Daniel Hanford, Inc.

Date

Modification Class: ¹²³

Please check one of the Classes:

Class 1

Class ¹1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.7.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions


7. Changes in ownership or operational control of a facility

Submitted by Co-Operator:

Reviewed by DOE Program Office:

Reviewed by Ecology:

Reviewed by Ecology:



E. Aromi 5/2/03 Date

J. Swailes

Date

F. Jamison

Date

L. E. Ruud

Date

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification
Part III, Chapter 5 and Attachment 35
242-A Evaporator

Quarter Ending June 30, 2003

Replacement Section

Index

Chapter 1.0

CONTENTS

1.0 PART A, FORM 3, DANGEROUS WASTE PERMIT.....	Att 35.1.i
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1.0 PART A

The following is a chronology of the regulatory history of the 242-A Evaporator.

- On September 1, 1987 the original Hanford Facility Dangerous Waste Part A Permit Application (Part A), Form 3, Revision 0 was submitted to the Washington State Department of Ecology (Ecology).
- On November 16, 1987, the Part A, Form 3, Revision 1, added Westinghouse Hanford Company (WHC) as co-operator.
- On February 26, 1990 the Part A, Form 3, Revision 2, added new dangerous waste numbers to reflect the waste identified within the Double-Shell Tank (DST) System (DOE/RL-90-39) and provided additional information on the process condensate waste stream.
- On December 20, 1990, the Part A, Form 3, Revision 3, added applicable dangerous waste numbers resulting from the addition of 15 new dangerous waste numbers subject to toxicity characteristics leaching procedure testing. Also, the Part A, Form 3, added nonspecific source Dangerous Waste Number F005.
- On April 13, 1993, the Part A, Form 3, Revision 4, added nonspecific source Dangerous Waste Numbers F001, F002, and F003 to corresponded with the dangerous waste numbers from the DST System.
- On November 4, 1994, the Part A, Form 3, Revision 5, added Dangerous Waste Number F039 (multi-source leachate). Dangerous Waste Number F039 was added to reflect Low-Level Burial Grounds (DOE/RL-88-20) generation of multi-source leachate from lined mixed waste trenches.
- On January 1, 1995, the Part A, Form 3, Revision 6, added Process Code S02 and increased the process design capacity for tank storage for tanks C-100 and C-A-1 and converted English measurements to metric.
- On October 10, 1997, the Part A, Form 3, Revision 7, was revised to support the transition of this treatment, storage, and/or disposal unit (TSD) to the new Project Hanford Management Contractor. Also, the Part A, Form 3 was submitted to streamline the dangerous waste numbers list.
- On May 26, 2003, the Part A Form 3, Revision 8, was revised to support the transition of this treatment, storage, and/or disposal unit (TSD) to the Tank Farm Contractor

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/State I.D. No.											
		W	A	7	8	9	0	0	0	8	9	6	7

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/ day / year)	Comments

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or If this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. First Application (place an "X" below and provide the appropriate date)

☐ **1. Existing Facility** (See instructions for definition of "existing" facility. Complete item below.)

☐ **2. New Facility** (Complete item below.)

MO	DAY	YEAR
03	23	1943

*For existing facilities, provide the date (mo/day/yr) operation began or the date construction commenced. (use the boxes to the left)

*The date construction of the Hanford Facility commenced

MO	DAY	YEAR

For new facilities, provide the date (mo/day/yr) operation began or is expected to begin

B. Revised Application (Place an "X" below and complete Section I above)

☒ **1. Facility has an interim Status Permit**
☒ **2. Facility has a Final Permit**

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. Process Code – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).

B. Process Design Capacity – For each code entered in column A enter the capacity of the process.

- Amount – Enter the amount.
- Unit of Measure – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic yards or cubic meters
Surface impoundment	S04	Gallons or liters
	S06	Cubic yards or cubic meters*
DISPOSAL:		
Injection well	D80	Gallons or liters
Landfill	D81	Acre-feet (the volume that would cover one acre to a Depth of one foot) or hectare-meter
Land application	D82	Acres or hectares
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons or liters
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour; gallons per hour or liters per hour
Other (use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	Gallons per day or liters per day

Unit of Measure	Unit of Measure Code	Unit of Measure	Unit of Measure Code	Unit of Measure	Unit of Measure Code
Gallons	G	Liters Per Day	V	Acre-Feet	A
Liters	L	Tons Per Hour	D	Hectare-Meter	F
Cubic Yards	Y	Metric Tons Per Hour	W	Acres	B
Cubic Meters	C	Gallons Per Hour	E	Hectares	Q
Gallons Per Day	U	Liters Per Hour	H		

III. PROCESS – CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line No.	A. Process Code (from list above)			B. Process Design Capacity			For Official Use Only			
				1. Amount (Specify)	2. Unit of Measure (enter code)					
X-1	S	0	2	600	G					
X-2	T	0	3	20	E					
1	T	0	4	870,642	V					
2	S	0	2	170,597	L					
3										
4										
5										
6										
7										
8										
9										
10										

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

T04

The 242-A Evaporator began waste management operations in March of 1977. The 242-A Evaporator is located in the 200 East Area and is used to treat mixed waste from the Double-Shell Tank (DST) System by removing water and most volatile organics. Two waste streams leave the 242-A Evaporator following the treatment process. The first stream, the concentrated slurry (approximately 40 to 60 percent of the water is removed during evaporation along with a portion of volatile organics), is pumped back into the DST System. The second waste stream, process condensate (containing a portion of the volatile organics removed from the mixed waste during the evaporation process), is routed through condensate filters before release to a retention basis (Liquid Effluent Retention Facility). Offgasses from the process are routed through a de-entrainment unit, a prefilter, and high-efficiency particulate air filters before being discharged to the environment. The 242-A Evaporator is used to treat up to 870,642 liters (230,000 gallons) of mixed waste per day.

S02

Tank C-100, a 4.3-meter (14-foot) diameter and 5.9-meter (19-foot) high tank with a maximum design capacity of 67,380 liters (17,800 gallons) is located in the condensate room. Process condensate from the primary, inter-, and after-condensers drain by gravity to tank C-100, which is constructed of stainless steel. In addition, tank C-100 receives potentially contaminated drainage from the vessel vent system via a 102 -liter (27 gallon) seal pot.

Tank C-A-1 is located in the evaporator room and consists of two sections: the lower (liquid) section, a 4.3-meter (14-foot) diameter stainless steel shell, and an upper (vapor) section, a 3.5-meter (11.6-foot) diameter stainless steel shell, containing two wire-mesh de-entrainment pads for the removal of liquids and solids that could be carried into the vapor header. Process slurry from the reboiler discharges to the evaporator vessel (tank C-A-1). Concentrated process slurry exits the lower section of tank C-A-1 via the 28-inch recirculating line. Vapor flows out of tank C-A-1 through a 42-inch vapor line at the top. The maximum design capacity of tank C-A-1 is 103,217 liters (27,267 gallons).

IV. DESCRIPTION OF DANGEROUS WASTES

A. Dangerous Waste Number – Enter the digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four-digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. Estimated Annual Quantity - For each listed waste entered in column A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. Unit of Measure - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
Pounds	P	Kilograms	K
Tons	T	Metric Tons	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

1. Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste.

Line No.	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)			D. Processes				
									1. Process Codes (enter)			2. Process Description (if a code is not entered in D(1))	
X-1	K	0	5	4	900		P		T03	D80			
X-2	D	0	0	2	400		P		T03	D80			
X-3	D	0	0	1	100		P		T03	D80			
X-4	D	0	0	2					T03	D80			Included with above

Photocopy this page before completing if you have more than 26 wastes to list.

I.D. Number (enter from page 1)											
W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

Line No.	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)			D. Processes			
									1. Process Codes (enter)		2. Process Description (if a code is not entered in D(1))	
1	D	0	0	1	635,029,318		K		T04			Treatment - Evaporation
2	D	0	0	2			K		T04			Treatment - Evaporation
3	D	0	0	3			K		T04			Treatment - Evaporation
4	D	0	0	4			K		T04			Treatment - Evaporation
5	D	0	0	5			K		T04			Treatment - Evaporation
6	D	0	0	6			K		T04			Treatment - Evaporation
7	D	0	0	7			K		T04			Treatment - Evaporation
8	D	0	0	8			K		T04			Treatment - Evaporation
9	D	0	0	9			K		T04			Treatment - Evaporation
10	D	0	1	0			K		T04			Treatment - Evaporation
11	D	0	1	1			K		T04			Treatment - Evaporation
12	D	0	1	8			K		T04			Treatment - Evaporation
13	D	0	1	9			K		T04			Treatment - Evaporation
14	D	0	2	2			K		T04			Treatment - Evaporation
15	D	0	2	8			K		T04			Treatment - Evaporation
16	D	0	2	9			K		T04			Treatment - Evaporation
17	D	0	3	0			K		T04			Treatment - Evaporation
18	D	0	3	3			K		T04			Treatment - Evaporation
19	D	0	3	4			K		T04			Treatment - Evaporation
20	D	0	3	5			K		T04			Treatment - Evaporation
21	D	0	3	6			K		T04			Treatment - Evaporation
22	D	0	3	8			K		T04			Treatment - Evaporation
23	D	0	3	9			K		T04			Treatment - Evaporation
24	D	0	4	0			K		T04			Treatment - Evaporation
25	D	0	4	1			K		T04			Treatment - Evaporation
26	D	0	4	3			K		T04			Treatment - Evaporation
27	W	T	0	1			K		T04			Treatment - Evaporation
28	W	T	0	2			K		T04			Treatment - Evaporation
29	W	P	0	1			K		T04			Treatment - Evaporation
30	W	P	0	2			K		T04			Treatment - Evaporation
31	F	0	0	1			K		T04			Treatment - Evaporation
32	F	0	0	2			K		T04			Treatment - Evaporation
33	F	0	0	3			K		T04			Treatment - Evaporation
34	F	0	0	4			K		T04			Treatment - Evaporation
35	F	0	0	5			K		T04			Treatment - Evaporation
36	F	0	3	9			K		T04			Treatment - Evaporation
37	D	0	0	1	348,241		K		S02			Storage - Tank
38	D	0	0	2			K		S02			Storage - Tank
39	D	0	0	3			K		S02			Storage - Tank
40	D	0	0	4			K		S02			Storage - Tank
41	D	0	0	5			K		S02			Storage - Tank
42	D	0	0	6			K		S02			Storage - Tank

Photocopy this page before completing if you have more than 26 wastes to list.

I.D. Number (enter from page 1)
W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

Line No.	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)			D. Processes				
									1. Process Codes (enter)			2. Process Description (if a code is not entered in D(1))	
43	D	0	0	7			K		S02				Storage - Tank
44	D	0	0	8			K		S02				Storage - Tank
45	D	0	0	9			K		S02				Storage - Tank
46	D	0	1	0			K		S02				Storage - Tank
47	D	0	1	1			K		S02				Storage - Tank
48	D	0	1	8			K		S02				Storage - Tank
49	D	0	1	9			K		S02				Storage - Tank
50	D	0	2	2			K		S02				Storage - Tank
51	D	0	2	8			K		S02				Storage - Tank
52	D	0	2	9			K		S02				Storage - Tank
53	D	0	3	0			K		S02				Storage - Tank
54	D	0	3	3			K		S02				Storage - Tank
55	D	0	3	4			K		S02				Storage - Tank
56	D	0	3	5			K		S02				Storage - Tank
57	D	0	3	6			K		S02				Storage - Tank
58	D	0	3	8			K		S02				Storage - Tank
59	D	0	3	9			K		S02				Storage - Tank
60	D	0	4	0			K		S02				Storage - Tank
61	D	0	4	1			K		S02				Storage - Tank
62	D	0	4	3			K		S02				Storage - Tank
63	W	T	0	1			K		S02				Storage - Tank
64	W	T	0	2			K		S02				Storage - Tank
65	W	P	0	1			K		S02				Storage - Tank
66	W	P	0	2			K		S02				Storage - Tank
67	F	0	0	1			K		S02				Storage - Tank
68	F	0	0	2			K		S02				Storage - Tank
69	F	0	0	3			K		S02				Storage - Tank
70	F	0	0	4			K		S02				Storage - Tank
71	F	0	0	5			K		S02				Storage - Tank
72	F	0	3	9			K		S02				Storage - Tank
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													

IV. DESCRIPTION OF DANGEROUS WASTE (continued)

E. Use this space to list additional process codes from Section D(1) on page 3.

The 242-A Evaporator is used to treat and store mixed waste from the DST System. Two waste streams leave the 242-A Evaporator following the treatment process; a concentrated slurry waste stream that is routed to the DST System and a process condensate waste stream that is routed to the Liquid Effluent Retention Facility.

The waste fed to the 242-A Evaporator is regulated as a mixed waste with the same waste constituents as the waste in the DST System. The concentrated slurry is a characteristic waste (D001, D002, and D003), toxic waste (D004 through D011, D018, D019, D022, D028 through D030, D033 through D036, D038 through D041, and D043), nonspecific source waste (F001 through F005 and F039), and state-only characteristic waste (WT01, WT02, WP01, WP02. Multi-source leachate (F039) is included as a waste derived from nonspecific source waste F001 through F005.

The process condensate is regulated as a mixed waste due to the toxicity of ammonia (WT02) and because it is derived from the waste with a nonspecific source wastes F001 through F005. Multi-source leachate (F039) is included as a waste derived from nonspecific source waste F001 through F005.

The list of dangerous waste constituents under Section IV.A includes constituents that have not been detected in the waste; however, knowledge of the processes providing the waste to the 242-A Evaporator indicates the strong possibility that these constituents are present in the waste or there is a potential for treating these constituents in the future. The annual waste quantity listed under Section IV.B was calculated using an operating schedule of 365 days per year and a specific gravity of 2.0 for the waste. This calculation was done to provide a maximum estimate of annual waste quantity.

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

This information is provided on the attached drawings and photos.

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

VIII. FACILITY OWNER

- ☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information," place an "X" in the box to the left and skip to Section IX below.
B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. Name of Facility's Legal Owner

2. Phone Number (area code & no.)

3. Street or P.O. Box



4. City or Town

5. St.

6. Zip Code

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (print or type) Keith A. Klein, Manager U. S. Department of Energy	Signature 	Date Signed 5/15/03
Name (print or type) Roy J. Schepens, Manager U. S. Department of Energy	Signature 	Date Signed 5/15/03

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (Print Or Type) See attachment	Signature	Date Signed
--	-----------	-------------

X. OPERATOR CERTIFICATION

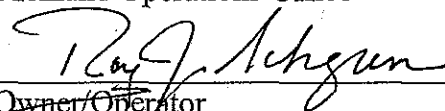
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office



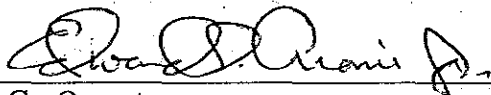
Date



Owner/Operator
Roy J. Shepens, Manager
U.S. Department of Energy
Office of River Protection



Date



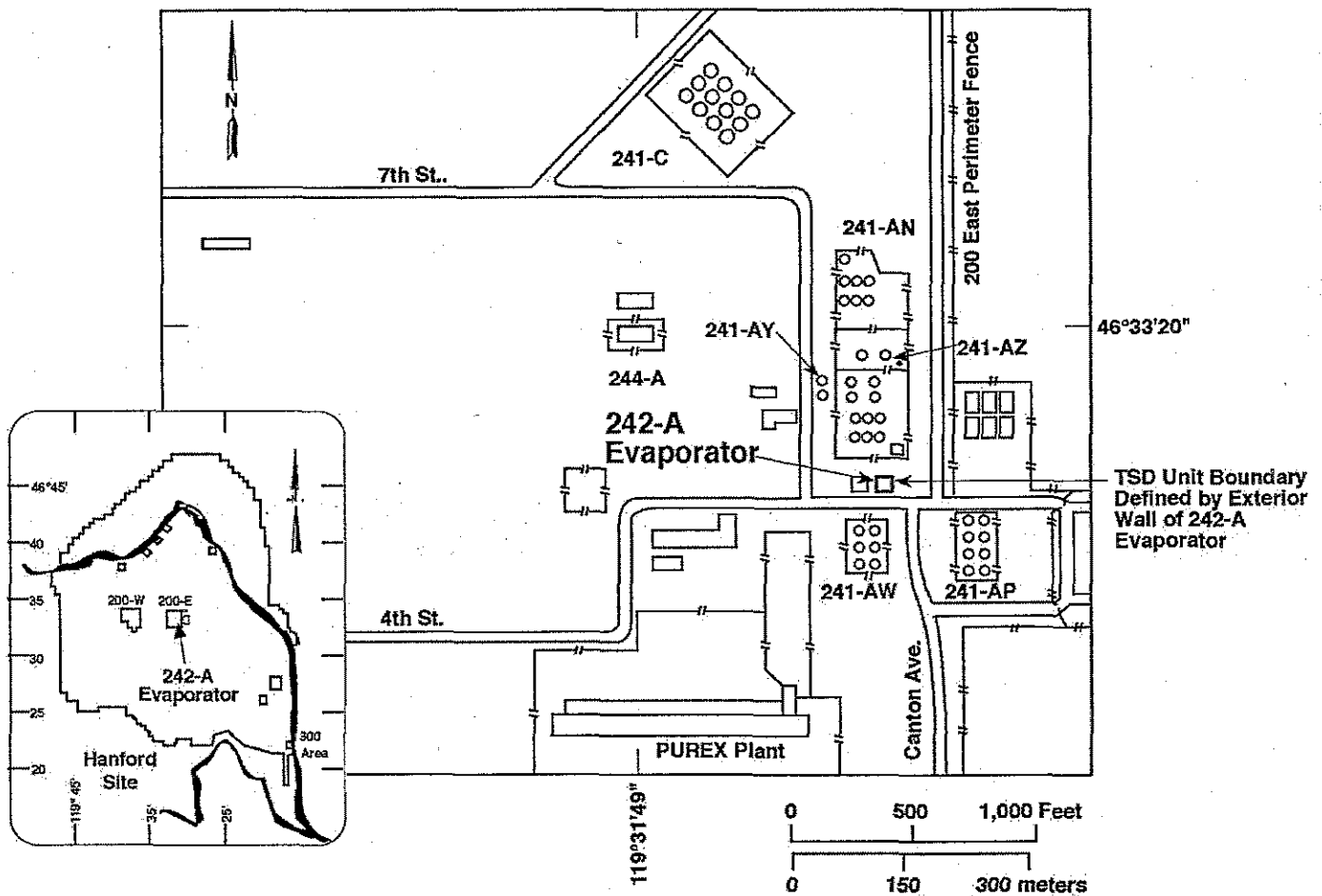
Co-Operator
Edward S. Aromi Jr.
President and General Manager
CH2M HILL Hanford Group, Inc.



Date

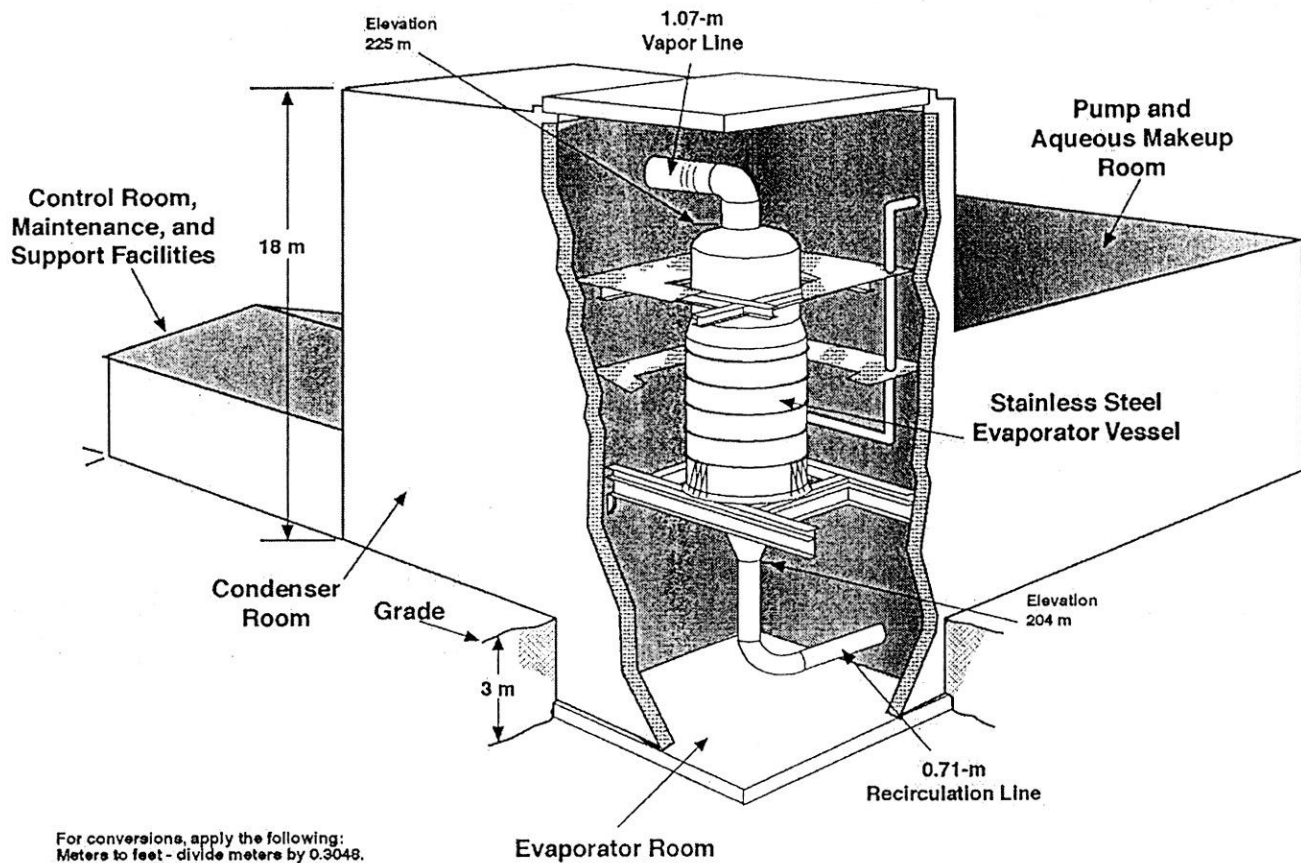
- Official Use Only -

242-A Evaporator Site Plan



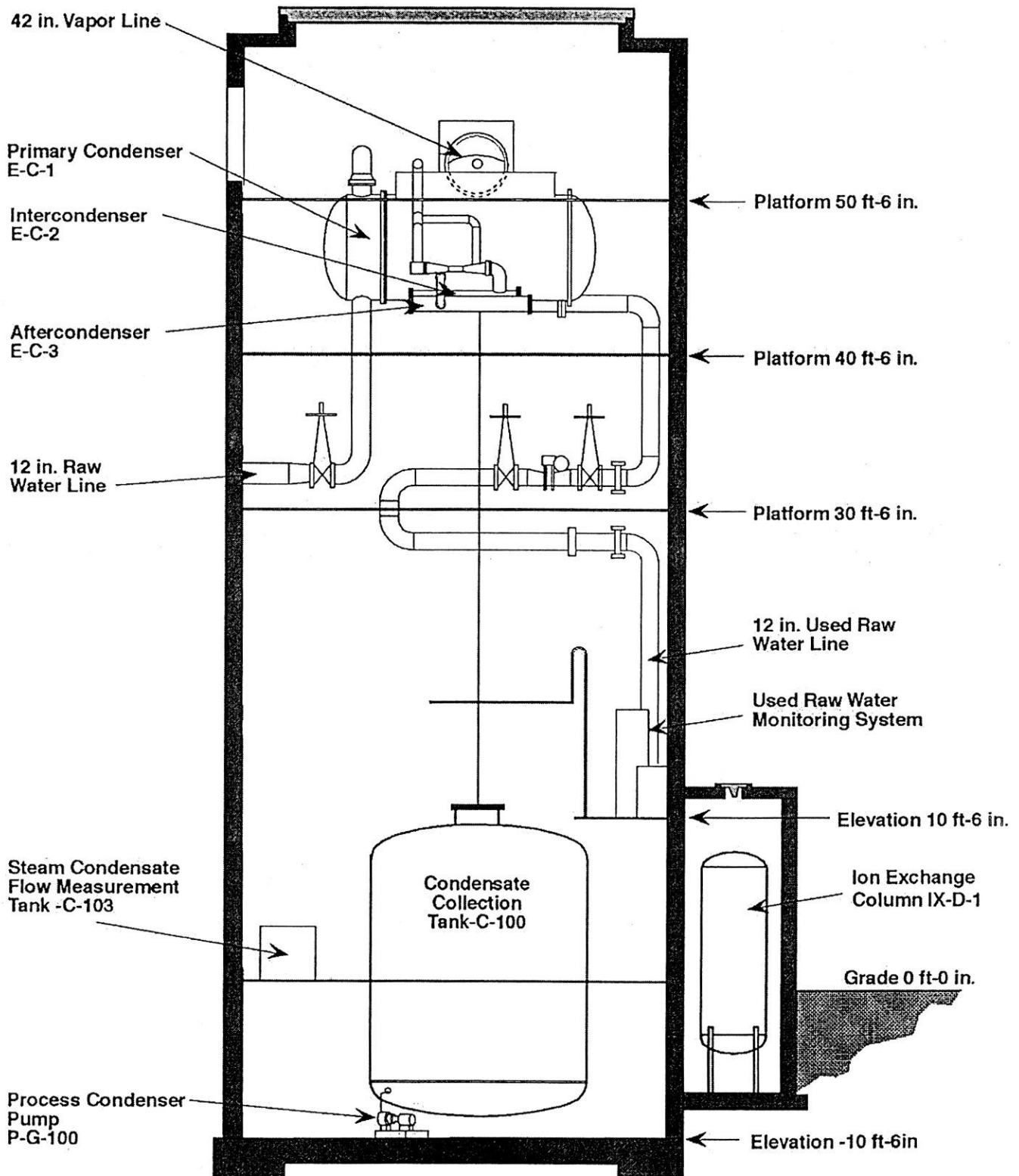
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242-A Evaporator



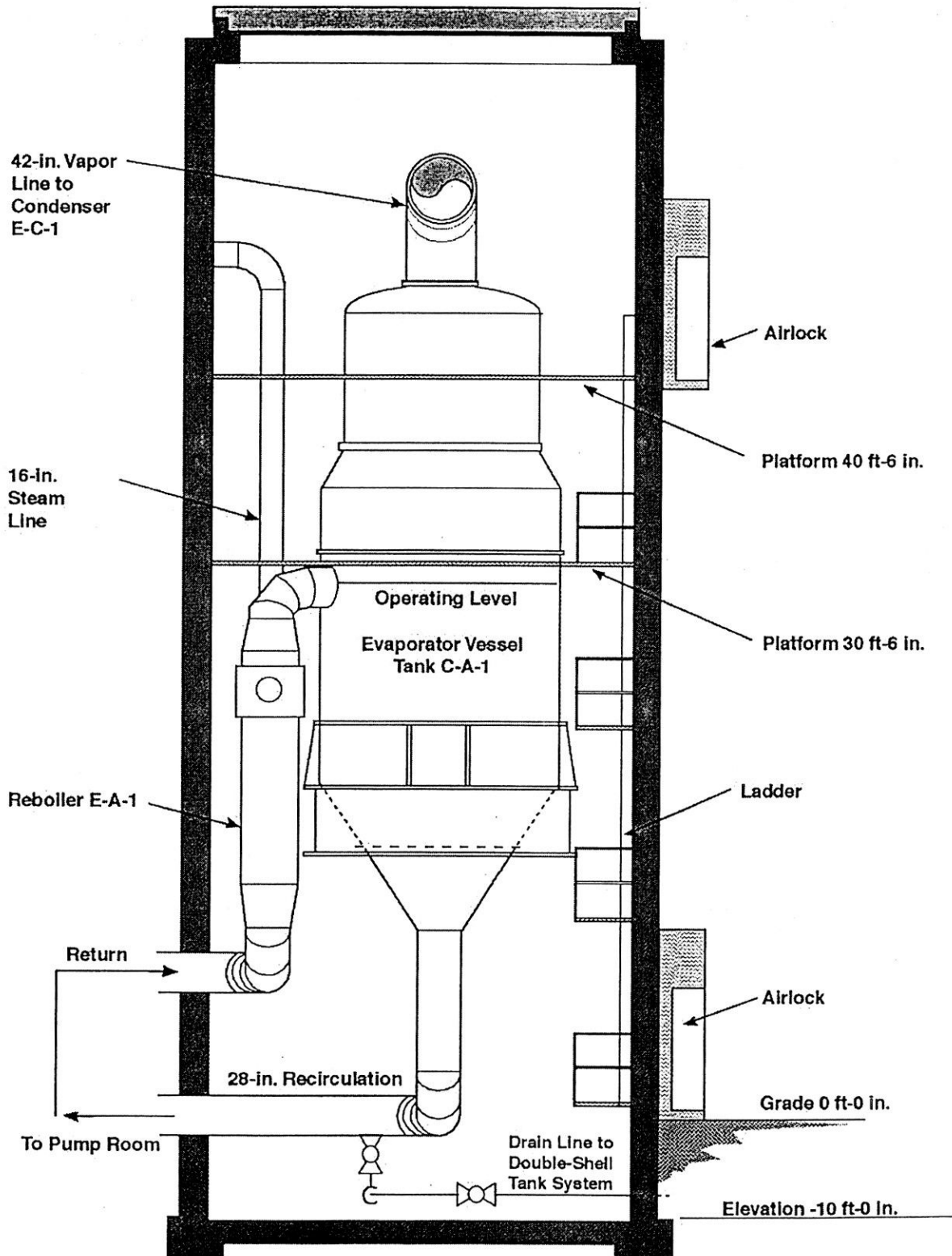
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Tank C-100



39103003.61 FH

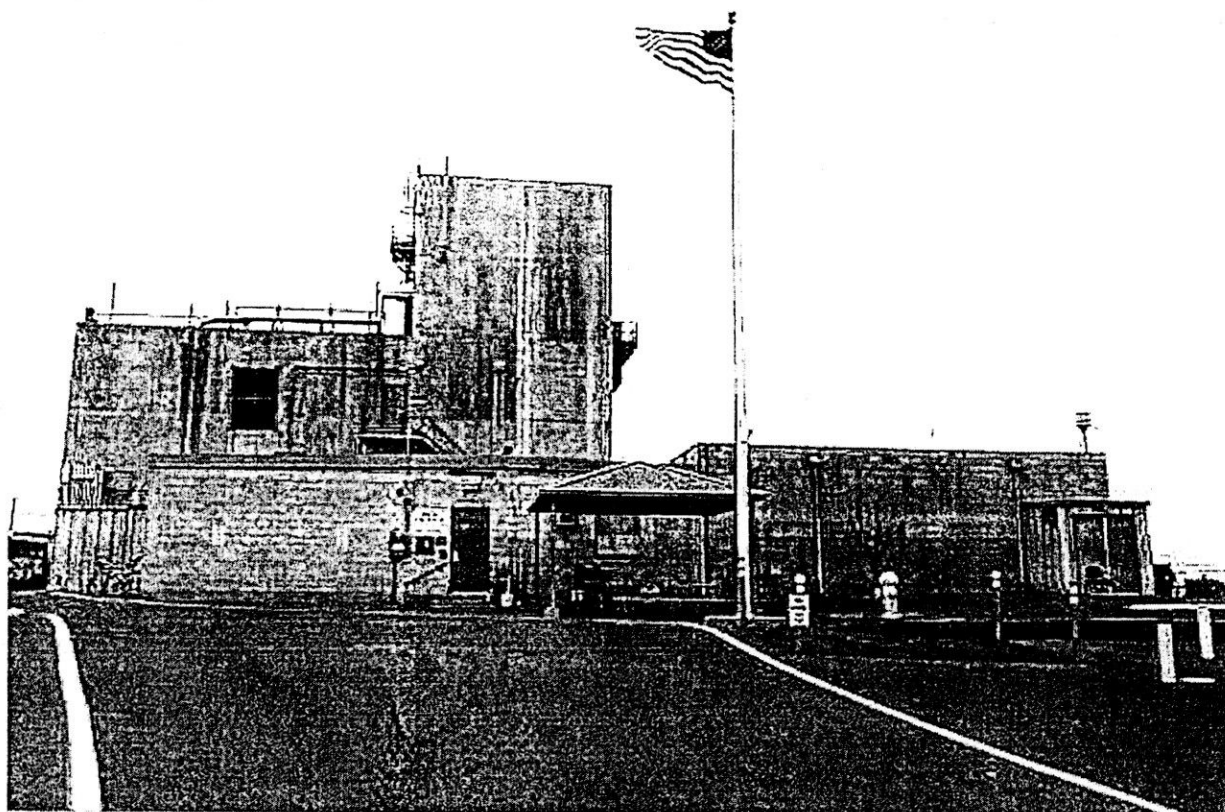
Tank C-A-1



39103003.60 FH

- Official Use Only -

242-A Evaporator



46°33'09"
119°31'01"

96080579-19CN
(PHOTO TAKEN 1996)